31. (Currently Amended) A system for providing quality-of-service to VoIP over a wireless local access network, comprising;

means for receiving an invite message from a calling party by a SIP proxy server via an access point;

means for determining whether voice slots are available on the access point;

means for forwarding the invite message from the SIP proxy server to a called party, and

if the called party sends an acknowledgement message to the calling party in response to receiving the invite message, means for adding the calling party to a polling list of the access point, and means for sending packets to and receiving packets from the called party during a contention-free period of the determined available **voice** slots of the access point.